

PGT Exam Performance Feedback

2017/2018 Semester 1

COMP61011 Foundations of Machine Learning

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Comments Section A

Q1. Almost all the class got part of this incorrect, part correct. The gradient is calculated anew for a new loss function - the one stated has gradient $2(f-y)$, not just $(f-y)$. Most people however correctly stated the nested loop for SGD. Several people forgot to state the update for parameter t .

Q2. Most of the class (>50%) got this correct - a few (about 20%) could name it but not state it correctly in mathematics.

Q3. Several people (about 30%) did not get this correct as they mis-interpreted what the probabilities were used for. If the distribution of X was $\{0.2, 0.2, 0.1, 0.5\}$, the values of the X are not 0.2, 0.1, etc - these are the *probabilities* of the values in a discrete distribution.

Section B

Most students performed well, or very well, on Ross King's question.
